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- 1. A network apparatus, connected to other network entities
- 2 via a first type of connection and other network entities
- 3 via a second type of connection, comprising:
- a spoofing element, which spoofs some of the multiple
- 5 connections of the first type based on their associated
- 6 applications.
- 1 2. The network apparatus of claim 1, wherein said spoofing
- 2 element only spoofs connections of the first type associated
- 3 with high throughput applications.

- 1 3. The network apparatus of claim 1, wherein said spoofing
- 2 element assigns spoofing resources, including buffer space
- $\frac{1}{2}$  and control blocks, to the spoofed connections.

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- 1 4. The network apparatus of claim 1, wherein said spoofing
- 2 element spoofs connections using at least one spoofing rule
- 3 based on destination address, source address, destination
- port number, source port number, options, a differentiated
  - 5 services (DS) field or combinations thereof.
  - 1 5. The network apparatus of claim 4, wherein said spoofing
  - 2 element defines the at least one spoofing rule in a spoofing
  - 3 profile.
  - 1 6. The network apparatus of claim 1, wherein said spoofing
  - 2 element spoofs some of the multiple connections of the first
  - 3 type based on at least one operator selectable criterion.

- 1 7. The network apparatus of claim 1, wherein the first
- 2 connection uses a high layer protocol.
- 1 8. The network apparatus of claim 7, wherein the first
- 2 connection uses one of the Transmission Control Protocol
- 3 (TCP) and the User Datagram Protocol (UDP).
- 1 9. The network apparatus of claim 1, wherein the second
- 2 connection is a backbone connection.
- 1 10. The network apparatus of claim 9, wherein the backbone
- 2 connection is via a wireless link.
- 1 11. The network apparatus of claim 10, wherein the wireless
- 2 link has high latency and high error rate.
  - 1 12. The network apparatus of claim 10, wherein the wireless
- 2 link is a satellite link.

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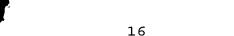
- 01 13. The network apparatus of claim 1, wherein said network
- $\Box$  2 apparatus is a component of a network gateway.
  - 1 14. The network apparatus of claim 1, wherein said network
  - 2 apparatus is a component of a host.
  - 1 15. The network apparatus of claim 1, wherein said network
  - 2 apparatus is a component of a hub.
  - 1 16. The network apparatus of claim 1) wherein said network
  - 2 apparatus is a component of a switch.

- The network apparatus of claim 1, wherein said network 1
- 2 apparatus is a component of a VSAT.
- The network apparatus of claim 1, wherein said network 1
- 2 apparatus is a component of a router.
- A method, comprising: 1
- establishing\multiple connections of a first type 2
- associated with different applications; and 3
- spoofing some of the multiple connections of the first 4
- type based on their associated applications. 5
- The method of claim 19, wherein said spoofing step only 1
  - spoofs connections of the first type associated with high 2
- throughput applications.
  - 21. The method of claim 19, wherein said spoofing step 1
- 1 2 2 3 assigns spoofing resources, itcluding buffer space and
  - control blocks, to the spoofed\connections.
  - The method of claim 19, whetein said spoofing step
  - spoofs connections using at least\one spoofing rule based on 2
  - destination address, source address, destination port 3
  - number, source port number, options \( \) a differentiated 4
  - 5 services (DS) field or combinations thereof.
  - The method of claim 22, wherein said spoofing step 1
  - defines the at least one spoofing rule  $i\hbar$  a spoofing 2
  - profile. 3

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- The method of claim 19, wherein said spoofing step 1
- spoofs some of the multiple connections of the first type
- based on at least one operator selectable criterion. 3
- The method\of claim 19, wherein the first connection 1
- 2 uses a high layer protocol.
- The method of claim 25, wherein the first connection 1
- 2 uses one of the Transmission Control Protocol (TCP) and the
- User Datagram Protoco↓ (UDP). 3
- The method of claim 19, wherein said method is [] 1
  - performed in a network gateway.
  - The method of claim  $1\frac{1}{2}$ , wherein said method is performed 28.
  - in a host.

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- The method of claim 19, wherein said method is 29.
  - performed in a hub.
- 1 1 The method of claim 19, wherein said method is
  - performed in a switch. 2
  - The method of claim 19, wherein\said method is 1
  - performed in a VSAT.
  - The method of claim 19, wherein said method is 1
  - performed in a router.